

IN THE SPECIFICATION

Please add the following abstract to the specification. No new matter has been added.

ABSTRACT

A method and apparatus for timing recovery of digital vestigial sideband (VSB) signals is described. A baseband VSB signal is filtered by a band-edge filter. The filter output is then transformed using a non-linear transformation and filtered using a linear filter. The output is then used as a timing correction signal to a digital resampler and/or to an external clock source. The energy contained in the sampled received signal is maximized. In one embodiment, the non-linear transformer is adapted to square the signal thereby providing a complex signal having a real and an imaginary component and provide the imaginary component as the timing-retrievable signal.